

HabaSYNC® Open-end Timing Belts

AT10-A-01



Main industry segments

Materials handling, packaging, automation

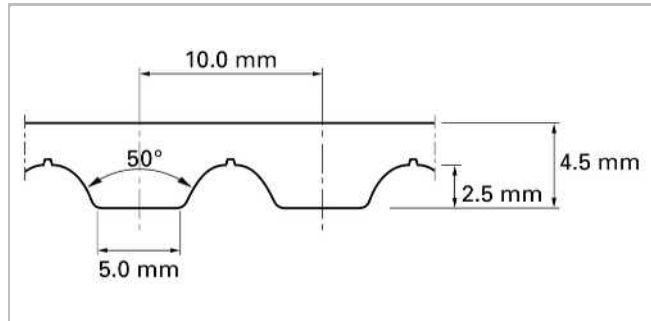
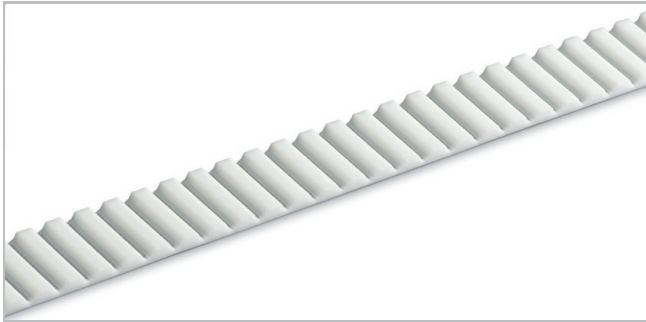
Belt applications

Pick-n-place transports, general conveying systems, packaging machinery, XYZ axis drives, robotics, vertical lifts and linear actuators

Description

Trapezoid teeth with a 50° tooth angle are spaced on 10 mm centers.

White thermoplastic polyurethane with 92 Shore A provides wear resistance on the tooth side and protects the aramid tensile member. Our material also provides high lubricity, which yields low noise and vibration meshing in and out of the drive pulley.



Sketch of basic shape

Belt data

Belt slitting width, nominal		Admissible tensile force, open belt		Admissible tensile force, joined belt		Tensile force for 1% elongation		Mass of belt	
mm	inch	N	lbf	N	lbf	N	lbf	kg/m	lb/ft
25	0.98	3200	719	1600	360	5333	1199	0.11	0.07

Standard belt widths are equal to, or multiples of the nominal belt slitting width.

Maximum belt width (150 mm / 6 inch): All **non-standard belt widths** can be slitted on request.

Temperature range of matrix material: -20 to 80 °C (-4 to 176 °F)

The tensile force for 1% elongation (k1% static) per unit of width determines the stress-strain behavior of the belt. It defines the resulting strain if a certain stress is applied and vice versa. This value corresponds to the belt without joint.

The ultimate tensile strength (or breaking strength) for the widest slitting width mentioned above is 18500 N.

The admissible tensile force of a running belt is defined by the strength of the joint or by the strength of the belt without joint. Habasit defines an admissible belt force (without joint) for all belts, which always corresponds with a belt elongation of 0.6 %. Joined belts are calculated with half admissible force. Please contact Habasit for detailed information and calculations.

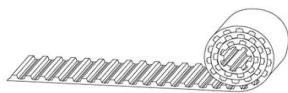
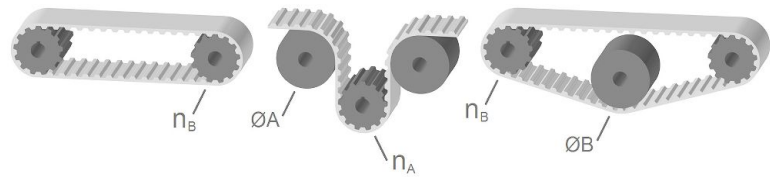
All data are approximate values under **standard climatic conditions**: 23 °C / 73 °F, 50% relative humidity (DIN 50005 / ISO 554), and are based on the Master Joining Method.

Belt options

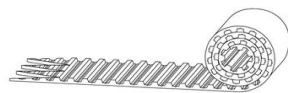
Description		ØA		n _A	ØB		n _B
		mm	inch		mm	inch	
Tooth side: unprocessed matrix material Conveying side: unprocessed matrix material	U U	120	4.72	25	50	1.97	15
Tooth side: unprocessed matrix material Conveying side: Polyamide fabric, green	U P	120	4.72	25	50	1.97	15
Tooth side: Polyamide fabric, green Conveying side: unprocessed matrix material	P U	120	4.72	25	50	1.97	15
Tooth side: Polyamide fabric, green Conveying side: Polyamide fabric, green	P P	120	4.72	25	50	1.97	15

For **detailed material properties** (e.g. coefficient of friction, colors, etc.) please contact your Habasit representative.

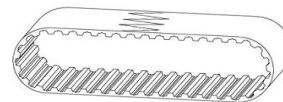
A = with counter flection
B = without counter flection



Open ended (O)



Prepared ends (P)



Joined endless (J)

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